QC ABSTRACT

Nameof Work: UGD works in Ward No.15 in Dasarahalli, BBMP, Bangalore.

SI. No.	Item	Quantity As Per BOQ	Required No's of testes	Actual No's of testes	Testes	Frequency
1	1:4:8	14.70 Cum	1	1	Cement Sand, Aggregates	One Test Per Lot
2	M20	22.05 Cum	3	3	Concrete Cube Compressive Strength	-
3	Stoneware Pipe	245.00 mtrs	1	1	-	-
4	GSB-V	22.05Cum	1	1	-	-
5	WMM	22.05Cum	-	-	-	-
	Gradation	-	1	1	-	-
	AIV	-	1	1	-	-
	Shape Test	-	1	1	-	-
	Atterberg Limits	-	1	1	-	-

Cubes

0-5 Cum	1Set
6-15 Cum	2Set
16-30 Cum	3Set
31-50 Cum	4Set
Add 1set for extra 50Cum	

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ಬಾಗಲಗುಂಟೆ. ಜಿ.ಕೆ.ಎಂ.ಪಿ
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An ISO 9001-2015 Certified Company

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Job No.: CACE/BBMP/ML/W.No.15/2021-22

Date: 12.08.2021

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri. Mallikarjun,** Contractor, Bangalore.
NAME OF THE WORK	:	UGD works in Ward No.15 in Dasarahalli, BBMP, Bangalore.
SAMPLE ID	:	Cement (Zuari OPC 53 Grade)
DATE OF MANUFACTURE		July - 2021
DATE OF TESTING		10.08.2021 to 12.08.2021
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	1230 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	340 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.00 %	-

Note:

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Job No.: CACE/BBMP/ML/W.No.15/2021-22 Date : 12.08.2021

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Mallikarjun,** Contractor, Bangalore.

Name of Work : UGD works in Ward No.15 in Dasarahalli, BBMP, Bangalore.

Date of Testing : 12.08.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand Total Wt. of Aggregates in grms 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	84	8.40	8.40	91.6	90-100
2.36	129	12.90	21.30	78.7	75-100
1.18	185	18.50	39.80	60.2	55-90
600 Micron	166	16.60	56.40	43.6	35-59
300 Micron	254	25.40	81.80	18.2	8-30
150 Micron	138	13.80	95.60	4.4	0-10

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Job No.: CACE/BBMP/ML/W.No.15/2021-22 Date : 12.08.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
Agency : **Sri. Mallikarjun,** Contractor, Bangalore.
Name of Work : UGD works in Ward No.15 in Dasarahalli, BBMP, Bangalore.
Date of Testing : 12.08.2021
Material : Sand - Masonry Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	14	1.40	1.40	98.6	90-100
1.18	38	3.80	5.20	94.8	70-100
600 Micron	84	8.40	13.60	86.4	40-100
300 Micron	255	25.50	39.10	60.9	5-70
150 Micron	481	48.10	87.20	12.8	0-15

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Job No.: CACE/BBMP/ML/W.No.15/2021-22 Date : 12.08.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Mallikarjun,** Contractor, Bangalore.

Name of Work : UGD works in Ward No.15 in Dasarahalli, BBMP, Bangalore.

Date of Testing : 12.08.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms : 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	182	3.6	3.6	96.4	95 100
10	2430	48.6	52.2	47.8	25 55
4.75	1968	39.4	91.6	8.4	0 10

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Job No.: CACE/BBMP/ML/W.No.15/2021-22 Date : 12.08.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Mallikarjun,** Contractor, Bangalore.

Name of Work : UGD works in Ward No.15 in Dasarahalli, BBMP, Bangalore.

Date of Testing : 12.08.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	185	1.23	1.23	98.77	95-100
20	8230	54.87	56.10	43.90	30-70
10	3256	21.71	77.81	22.19	10-35
4.75	2815	18.77	96.57	3.43	0-5

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Job No.: CACE/BBMP/ML/W.No.15/2021-22 12.08.2021

Test Report Of Glazed Stoneware Pipes

Client	**Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
Agency	**Sri. Mallikarjun,** Contractor, Bangalore.
Name of the work	UGD works in Ward No.15 in Dasarahalli, BBMP, Bangalore.
Type of Sample	**Glazed Stoneware Pipe(230mm dia)SP-1 Class**
Techinical Reference	**As Per IS-651:2007 (VI revision)**
Date of Testing	12.08.2021

Sl no	Internal Diameter	Thickness of Pipe	% absorption	% of Acid Resistance	Crushing Strength kN/m
1	230mm	20mm	5.5	1.62	16.89
2	230mm	20mm	4.8	1.79	17.52
3	230mm	20mm	5.6	1.65	17.95
Requirements as per IS-651:2007(VI Revision)	-----	----	**Maximum 6%**	**Not Exceed 2.5%**	**Minimum 16kN/m**

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Job No: CACE/BBMP/ML/W.No.15/2021-22 Date : 20.08.2021

GRADATION FOR GSB (Grading V)

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Mallikarjun,** Contractor, Bangalore.

Name of work : UGD works in Ward No.15 in Dasarahalli, BBMP, Bangalore.

BIS Code : IS 2386 Part (1):1963
: IS 2720 part (5):1985

Date of Testing : 18.08.2021 to 20.08.2021

Oven Dry Wt (gm) : 13000

TABLE – 1

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirements as per MORTH 5th edition table 400.1
75	0	0	0.00	100	100
53	724	724	5.57	94.43	80-100
26.5	2410	3134	24.11	75.89	55-90
9.5	2085	5219	40.15	59.85	35-65
4.75	1896	7115	54.73	45.27	25-50
2.36	3652	10767	82.82	17.18	10-20
0.85	1756	12523	96.33	3.67	2-10
0.425	265	12788	98.37	1.63	0-5

Table 2

Sl. No.	Particulars	Test Results	Requirements as per MORTH 5th edition table 400.2
1	Liquid Limit, %	21.00	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading V

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Job No.: CACE/BBMP/ML/W.No.15/2021-22 Date : 26.08.2021

GRADATION FOR WMM

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Mallikarjun,** Contractor, Bangalore.

Name of Work : UGD works in Ward No.15 in Dasarahalli, BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing : 26.08.2021

Material Type : Wet Mix Macadam

Oven Dry Wt, grat 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	178	178	1.8	98.2	95-100
22.4	2536	2714	27.1	72.9	60-80
11.2	2158	4872	48.7	51.3	40-60
4.75	1865	6737	67.4	32.6	25-40
2.36	1120	7857	78.6	21.4	15-30
0.600	598	8455	84.6	15.5	8-22
0.075	1225	9680	96.8	3.2	0-5

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Job No.: CACE/BBMP/ML/W No 15/2021-22 Date: 26.08.2021

Aggregate Impact Value

Client	**Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
Agency	**Sri. Mallikarjun,** Contractor, Bangalore.
Name of the Work	UGD works in Ward No.15 in Dasarahalli, BBMP, Bangalore.
IS Code	IS 2386 (Part 4):1963(R.A 2011)
Type of Mix	Wet Mix macadam
Date of Testing	26.08.2021

Sl No.	Details	Test No. 1	Test No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	380	382	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	83	85	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	297	297	
4	Aggregate Impact value = percent fines $100^* (W_2/W_1)\%$	21.84	22.25	22.05

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

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Job No.: CACE/BBMP/ML/W.No.15/2021-22 Date : 26.08.2021

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
Agency	**Sri. Mallikarjun,** Contractor, Bangalore.
Name of Work	UGD works in Ward No.15 in Dasarahalli, BBMP, Bangalore.
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	26.08.2021

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	11.20	11.80	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	13.10	13.50	
	Combined Flakiness & Elongation index	24.30	25.30	

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Job No.: CACE/BBMP/ML/W.No.15/2021-22 Date : 26.08.2021

ATTERBERG LIMITS TEST FOR WMM

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
Agency : **Sri. Mallikarjun,** Contractor, Bangalore.
Name of Work : UGD works in Ward No.15 in Dasarahalli, BBMP, Bangalore.
IS Code: : IS 2720(Part 5):1985
Date of Testing : 24.08.2021 to 26.08.2021
Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	19.50	
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Job No.: CACE/BBMP/ML/W.No.15/2021-22 Date: 10.09.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
Agency	: **Sri. Mallikarjun,** Contractor, Bangalore.
Name of the work	: UGD works in Ward No.15 in Dasarahalli, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.09.2021	10.09.2021	8.132	335.3	14.90
2	03.09.2021	10.09.2021	8.145	349.6	15.54
3	03.09.2021	10.09.2021	8.128	362.5	16.11

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Job No.: CACE/BBMP/ML/W.No.15/2021-22 Date: 01.10.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
Agency	: **Sri. Mallikarjun,** Contractor, Bangalore.
Name of the work	: UGD works in Ward No.15 in Dasarahalli, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.09.2021	01.10.2021	8.189	501.2	22.28
2	03.09.2021	01.10.2021	8.165	489.6	21.76
3	03.09.2021	01.10.2021	8.146	509.3	22.64

Note:

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3. Any Query regarding the report must be reported within 30 days from the date of testing.

AE-15

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬಿ ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ
ಬೆಂಗಳೂರು-560073

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No.01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah layout, Nagasandra, Bangalore - 560 073.
PH.No: 9591618639 GST IN:29CNWPD9510K1ZB Email:civilaimconsultants@gmail.com

CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/ML/W.No.15/2021-22 Date: 10.09.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
Agency	: **Sri. Mallikarjun,** Contractor, Bangalore.
Name of the work	: UGD works in Ward No.15 in Dasarahalli, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.09.2021	10.09.2021	8.168	332.5	14.78
2	03.09.2021	10.09.2021	8.145	346.2	15.39
3	03.09.2021	10.09.2021	8.138	350.8	15.59

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Job No: CACE/BBMP/ML/W.No.15/2021-22 Date: 01.10.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
Agency	: **Sri. Mallikarjun,** Contractor, Bangalore.
Name of the work	: UGD works in Ward No.15 in Dasarahalli, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.09.2021	01.10.2021	8.168	515.2	22.90
2	03.09.2021	01.10.2021	8.184	484.9	21.55
3	03.09.2021	01.10.2021	8.176	496.5	22.07

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AE-15

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ಬಿ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ. ಪಾಲಿಕೆ
ಬೆಂಗಳೂರು 560073

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Srikanth S.C.
Authorised Signatory

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Job No.: CACE/BBMP/ML/W.No.15/2021-22 Date: 10.09.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
Agency	: **Sri. Mallikarjun,** Contractor, Bangalore.
Name of the work	: UGD works in Ward No.15 in Dasarahalli, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.09.2021	10.09.2021	8.198	345.2	15.34
2	03.09.2021	10.09.2021	8.184	329.6	14.65
3	03.09.2021	10.09.2021	8.169	356.3	15.84

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Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.09.2021	01.10.2021	8.178	512.2	22.76
2	03.09.2021	01.10.2021	8.165	500.9	22.26
3	03.09.2021	01.10.2021	8.149	488.6	21.72

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